

CRATER IMAGE METADATA

EARTH IMAGES

| BMM Image # | Image ID# | LAT. | LONG. | Crater Name | Country or Geographic Region | Date Acquired | Camera/ Instrument | Lens Focal Length |
|-------------|--------------------------------|--------|---------|-----------------------------------|------------------------------|---------------|--------------------|-------------------|
| 1 | ISS006-E-16068 | 27.8S | 16.4E | Roter Kamm | Namibia | 12/28/2002 | E4: Kodak DCS760C | 400 mm |
| 2 | ISS012-E-15881 | 51.5N | 68.5W | Manicouagan | Canada | 1/24/2006 | E4: Kodak DCS760C | 50 mm |
| 3 | ISS014-E-11841 | 24.4N | 24.4E | Oasis | Libya | 1/13/2007 | E4: Kodak DCS760C | 400 mm |
| 4 | ISS014-E-15775 | 35N | 111W | Barringer | United States | 3/1/2007 | E4: Kodak DCS760C | 400 mm |
| 5 | ISS014-E-19496 | 29N | 7.6W | Ouarkziz | Algeria | 4/16/2007 | E4: Kodak DCS760C | 800 mm |
| 6 | ISS015-E-17360 | 23.9S | 132.3E | Gosses Bluff | Australia | 7/13/2007 | E4: Kodak DCS760C | 400 mm |
| 7 | ISS018-E-14908 | 22.9N | 10.4W | Tenoumer | Mauritania | 12/20/2008 | Nikon D2X | 800 mm |
| 8 | ISS018-E-23713 | 20N | 76.5E | Lonar | India | 1/28/2009 | Nikon D2X | 800 mm |
| | STS51I-33-56AA | 27S | 27.3E | Vredefort | South Africa | 8/29/1985 | Hasselblad | 250 mm |
| | STS61A-35-86 | 56.5N | 74.7W | Clearwater Lakes (East & West) | Canada | 11/1/1985 | Hasselblad | 250 mm |
| | ISS028-E-14782 | 25.52S | 120.53E | Shoemaker | Australia | 7/6/2011 | Nikon D2X | 200 mm |
| | ISS034-E-29105 | 17.32S | 128.25E | Piccaninny | Australia | 1/15/2013 | Nikon D2X | 180 mm |

CRATER IMAGE METADATA

MARS IMAGES

| BMM Image # | Image ID# | LAT. | LONG. | Crater Name | Geographic Region | *Date or Approx. YR Acquired | Camera/ Instrument | Mission Name |
|-------------|---------------------------------------|-------|--------|--------------|--|------------------------------|-------------------------------------|-----------------------------------|
| | PIA14290 | 5.4S | 137.8E | Gale | Aeolis Mensae | 2000's | THEMIS IR | Odyssey |
| | THEMIS IR MOSAIC | 14.5S | 175.4E | Gusev | Aeolis Quadrangle | 2000's | THEMIS IR | Odyssey |
| | Colorized MOLA | 42S | 67E | Hellas Basin | Hellas Planitia | 2000's | Mars Orbiter Laser Altimeter (MOLA) | Global Surveyor |
| | Viking Orbiter Mosaic | 26.5S | 33.9W | Holden | Margaritifer Sinus | 1970's | Visual Imaging Subsystem | Viking |
| 2 | V05055010 | 31.3N | 19.1E | unnamed | Northern Arabia | 2/3/2003 | THEMIS VIS | Odyssey |
| 5 | V11030007 | 20.7N | 125.9E | unnamed | Elysium Planitia | 6/9/2004 | THEMIS VIS | Odyssey |
| 7 | V01605003 | 14.7S | 174.7E | unnamed | within Gusev Crater | 4/25/2002 | THEMIS VIS | Odyssey |
| 10 | V18317011 | 0.3N | 155.5E | unnamed | Elysium Planitia | 2000's | THEMIS VIS | Odyssey |
| 12 | MOC2-1225a | 24S | 33W | unnamed | Margaritifer Terra | 2000's | Mars Obiter Camera | Global Surveyor |
| 13 | ESP_013954_1780 | 2.1S | 354.5E | Victoria | Meridiani Planum | 7/18/2009 | HiRise | Mars Reconnaissance Orbiter (MRO) |
| 14 | V01695013 | 0.04N | 71.9E | unnamed | Syrtis Major | 6/6/2002 | THEMIS VIS | Odyssey |
| 16 | THEMIS IR MOSAIC | 42S | 92W | unnamed | Thaumasia Highlands (Warrego Vallis) | 2000's | THEMIS IR | Odyssey |

*Estimated date/year based on mission time frame

CRATER IMAGE METADATA

EARTH'S MOON

| BMM Image # | Image ID# | LAT. | LONG. | Crater Name | Geographic Region | *Date or Approx. YR Acquired | Camera/ Instrument | Mission Name |
|-------------|-----------------------------------|-------|--------|---|---|------------------------------|--------------------------|------------------------------------|
| | Clementine Mosaic | 75S | 132.4E | Schrodinger | near south lunar pole on far side of Moon | 1990's | UVVIS camera | Clementine |
| | PIA14023 | 19.4S | 95W | Orientale | western border of the Moon's nearside and farside | 2010's | Wide Angle Camera (WAC) | Lunar Reconnaissance Orbiter (LRO) |
| | M104584833CE | 43.4S | 11.1W | Tycho | southern lunar highlands | 2010's | WAC | LRO |
| | LROC WAC Mosaic | 23.7N | 47.4W | Aristarchus | Oceanus Procellarium | 2010's | WAC | LRO |
| | LROC WAC Mosaic | 9.62N | 20.1W | Copernicus | Oceanus Procellarium | 2010's | WAC | LRO |
| | AS17-151-23260 | 9.62N | 20.1W | Copernicus | Oceanus Procellarium | December 1972 | Hasselblad | Apollo 17 |
| 1 | AS12-50-7438 | 1N | 15.2W | unnamed | Mare Insularum | November 1969 | Hasselblad | Apollo 12 |
| 2 | AS12 h 50 7431 | 5.7S | 2.1W | Herschel | Sinus Medii | November 1969 | Hasselblad | Apollo 12 |
| 3 | AS16-0692 | 11.4S | 26.4E | Theophilus | Kant Plateau | April 1972 | Metric Mapping | Apollo 16 |
| 4 | L05-H105 | 25.5N | 2.8E | Hadley C | Mare Imbrium | 8/14/1967 | Medium Resolution Camera | Lunar Orbiter |
| 5 | AS15-1010 | 25.8N | 21.0W | Lambert | Mare Imbrium | 1971 | Metric Mapping | Apollo 15 |
| 6 | AS15-M-0424 | 27N | 9W | Feuillee and Beer | Mare Imbrium | 7/31/1971 | Metric Mapping | Apollo 15 |
| 7 | AS15-2606 | 25.5N | 44.1W | Prinz (Center) [Aristarchus (bright crater/upper right)] | Oceanus Procellarium | Aug.1971 | Metric Mapping | Apollo 15 |
| 8 | AS15-2083 | 29N | 45.6W | Krieger and Van Biesbroeck | Oceanus Procellarium | 1971 | Metric Mapping | Apollo 15 |

*Estimated date/year based on mission time frame

CRATER IMAGE METADATA

MERCURY

| BMM Image # | Image ID# | LAT. | LONG. | Crater Name | Geographic Region | *Date or Approx. YR Acquired | Camera/ Instrument | Mission Name |
|-------------|----------------------------------|--------|--------|-----------------|-------------------|------------------------------|---------------------------|--------------|
| 1 | PIA12163 | **dnf | **dnf | unnamed | **dnf | 10/6/2008 | Narrow Angle Camera (NAC) | MESSENGER |
| 2 | PIA12068 | **dnf | **dnf | unnamed | **dnf | 10/6/2008 | NAC | MESSENGER |
| 3 | PIA12049 | 33.2S | 271.8W | Rembrandt Basin | Rembrandt Basin | 10/6/2008 | NAC | MESSENGER |
| 4 | PIA11355 | 11S | 31.5W | Kuiper | Kuiper quadrangle | 10/6/2008 | NAC | MESSENGER |
| 5 | PIA12368 | **dnf | **dnf | unnamed | **dnf | 9/29/2009 | NAC | MESSENGER |
| 6 | PIA12054 | **dnf | **dnf | unnamed | **dnf | 10/6/2008 | NAC | MESSENGER |
| 7 | PIA12370 | **dnf | **dnf | unnamed | **dnf | 9/29/2009 | NAC | MESSENGER |
| 8 | PIA12116 | 15.2N | 48.1W | Lermontov | Kuiper quadrangle | 10/6/2008 | NAC | MESSENGER |
| | MESSENGER MOSAIC | 18S* | 308E* | Renoir | **dnf | 2010's | Wide Angle Camera (WAC) | MESSENGER |
| | 575089 | 28.3S | 146.9E | Pahinui | **dnf | 7/31/2011 | NAC | MESSENGER |
| | 1566240 | 44.13S | 251.5E | Michelangelo | **dnf | 3/26/2012 | NAC | MESSENGER |

*Approximation

**dnf = data not found

CRATER IMAGE METADATA

VENUS

| BMM Image # | Image ID# | LAT. | LONG. | Crater Name | Geographic Region | *Date or Approx. YR Acquired | Camera/ Instrument | Mission Name |
|-------------|--------------------------|-------|--------|----------------------------|----------------------------|------------------------------|--------------------|--------------|
| 4 | PIA00086 | 27S | 339W | unnamed | Lavinia | Sept. 1990 | Imaging Radar | Magellan |
| 6 | PIA00466 | 15N | 5E | unnamed | Eistla Region | 1990's | Imaging Radar | Magellan |
| 7 | PIA00239 | 20.3N | 331.8E | Aurelia (proposed name) | Guinevere Planitia | 1990's | Imaging Radar | Magellan |
| | PIA00479 | 74.6N | 177.3E | Dickinson | NE Atalanta Region | 1990's | Imaging Radar | Magellan |
| | PIA00463 | 27.4N | 337.5E | Barton | East of Guinevere Planitia | Sept. 1990 | Imaging Radar | Magellan |
| | PIA00148 | 12.5N | 57.4E | Mead | North of Aphrodite Terra | 11/12/1990 | Imaging Radar | Magellan |
| | PIA00100 | 29.9N | 282.9E | unnamed | Beta Regio | 1990's | Imaging Radar | Magellan |
| | PIA00480 | 30S | 204E | Isabella | East of Dali Chasma | 1990's | Imaging Radar | Magellan |

*Estimated date/year based on mission time frame

CRATER IMAGE METADATA

VESTA

| BMM Image # | Image ID# | *LAT. | *LONG. | Crater Name | Geographic Region | Date Acquired | Camera/ Instrument | Mission Name |
|-------------|--------------------------|-------|--------|--|-----------------------|---------------|--------------------|--------------|
| | PIA15239 | 39S | 155E | Laelia | Sextilia Quadrangle | 1/8/2012 | Framing Camera | Dawn |
| | PIA15598 | 39S | 155E | Sextilia (upper right), Laelia (lower left) | Sextilia Quadrangle | 10/2/2011 | Framing Camera | Dawn |
| | PIA15649 | **dnf | **dnf | Octavia | Marcia Quadrangle | 10/14/2011 | Framing Camera | Dawn |
| | PIA16491 | **dnf | **dnf | Fonteia | Rheasilvia Quadrangle | 2/7/2012 | Framing Camera | Dawn |
| | PIA16489 | 11S | 224E | Cornelia | Numisia Quadrangle | 1/11/2012 | Framing Camera | Dawn |
| | PIA15235 | 34S | 295E | Canuleia | Urbina Quadrangle | 10/25/2011 | Framing Camera | Dawn |
| | PIA15324 | 63S | 77E | unnamed | Pinaria Quadrangle | 8/29/2011 | Framing Camera | Dawn |
| | IOTD-127 | 5.9S | 248.2E | Numisia | Numisia Quadrangle | 10/21/2011 | Framing Camera | Dawn |
| | IOTD-174 | 26S | 220E | Vibidia | Tuccia Quadrangle | 10/21/2011 | Framing Camera | Dawn |
| | IOTD-128 | 6.5S | 307.8E | Oppia | Oppia Quadrangle | 10/11/2011 | Framing Camera | Dawn |

*Approximate location

**dnf = data not found